April 30, 2019, 1:00-2:30 pm ET

- Welcome
  - Moderator - Gita Urban-Mathieux, USGS, burbanma@usgs.gov, 703-648-5175
  - Notes -   Elaine Guidero, USGS

- Attendance

	Name	Email	Organization
1	Gita Urban-Mathieux	burbanma@usgs.gov	USGS/NGP
2	Elaine Guidero	eguidero@usgs.gov	USGS/NGTOC
3	Derald Dudley	derald.dudley@dot.gov	USDOT
4	Seth Webinger	swebinger@usgs.gov	USGS/NGTOC
5	Tom Roff	thomas.roff@dot.gov	FHWA
6	Chuck Matthys	cpmatthys@usgs.gov	USGS/NGTOC
7	Karen Rank	karen_rank@fws.gov	USFWS
8	Elijah Henley	elijah.henley@dot.gov	FHWA/CFLHD
9	Tammy Ratliff	tammy.ratliff@dot.gov	FLH/EFLHD
10	Paul Dubois	paul.c.dubois@usace.army.mil	USACE/AGC
11	Dierdre Bevington-Attardi	Dierdre.bevington.attardi@census.gov	Census Bureau
12	Michael Meyers	michael_meyers@partner.nps.gov	NPS
13	Wendy Hawley	Wendy.Hawley@census.gov	Census
14	David Cackowski	g.david.cackowski@census.gov	Census
15	Tracy Fuller	tfuller@usgs.gov	USGS
16	Phillip Julian	phillip.julian@bia.gov	BIA

- FLRWG Collaboration Space and meeting notes
  - https://drive.google.com/drive/folders/13B_Ni44ErXvakTXX7jhOdA6dfTaPmtn8?usp=sharing
  - FLRWG web page on the GeoPlatform Community

- Review Actions from Fed 27, 2019 meeting

- o **Action:** Contact Tom Roff (thomas.roff@dot.gov) if you would like the data from the PAD-US and Federal Roads Overlay Test.
- o **Action:** Elijah will make links to the database (Multimodal Catalog Project) available to working group members. Here's the link: https://flh.fhwa.dot.gov/programs/flpp/ Once the page loads scroll down to 'Related Links' and you'll find links to the database, final report, and user's manual.

- Agenda
  - o Federal Lands Transportation Program update - Tammy Ratliff & Tom Roff

    Gita presented on the FLR-WG and USGS National Geospatial Program to the Federal Land Planning Program (FLPP) Council meeting a few weeks ago

    The FLPP combined GIS of agencies roads data where agencies can see each other's roads together, which allows the chance to improve everyone's data.

    The major problem is that, in a database of road networks from several different FLMAs, sometimes two or more of those agencies are claiming the same real estate. There is issues related to who owns the road and who maintains the roads. Tom Roff is working with 1spatial to identify problem areas and possibly bring together the FLMAs to find a resolution.

    It is likely that similar problems will be encountered with state, county, and local roads, particularly state-federal and state-state discrepancies.

    Tammy is using a Federal-to-Federal GIS dataset received in January as a pilot to program. Many federal data partners have been collecting data for a long time, and are comfortable sharing it, while others are just getting started with GIS data and are wary of making it public (although they are willing to share for specific studies).

    All FLMAs agreed to share the data they gave us with their state HPMS contact. Ideally, state groups will take FLMA data and incorporate it into their next HPMS submission, which means HPMS would be updated correctly. Tom will take another look at the PAD-US overlay test in HPMS with this newer data, in June, to see if data overlaps improve.

- February 19 US Road Network Spec Workshop outcomes - Derald Dudley
  Slides are here.
  USRN group considered ISO and other standards (namely Canada) to build this spec. It is a more agile approach to creating a specification, making it light, thin, easily scalable, and not forced on the community. USRN group anticipates easy adoption of the spec, and accommodation of multiple agency missions. Crucially, the spec is vendor-and application independent.

  The base spec has only essential features and attributes, as it must serve the entire community. It has 5 required & 1 optional elements, and their required attributes (mostly, UniqueID and Geometry).
  - · Road Element

- · Junction
- · Enclosed Traffic Area
- · Pathway (optional)
- · Ferry Connection

There are plans to extend the base spec for attributes that are needed by individual communities or agencies.
- · Functional Road Class (major players: USGS, Census, DOT)
  - o Working on modelling each or crosswalking between the three.
- · Address Ranges
- · Display Classes (for multi-scale web cartography)
- · Feature-Level Metadata
  - o Source, Vintage, Accuracy

One of the purposes of this exercise was to enforce consistency among agencies and standardize the words/language used to describe features. This will also facilitate data sharing with state DOTs.

Next steps are to:
- · Formalize the model and put into a white paper, targeted to complete in June.
- · Forward paper to federal community and state DOTs for their input/comments.
- · Address comments
- · Submit revised paper to FGDC Steering Committee
- · If SC approves, the project heads to the coordination group.
- · Eventually, implement at least a yearly update process.

Derald presented these slides at GIS-T last week, and will post these slides to the USRN site at https://communities.geoplatform.gov/ngda-transportation/u-s-road-specification.

USRN is a good test bed for incremental feature-level updates for elements. Creating road update feeds that could be pulled from servers to support these incremental updates may need further conversation, but Tom noted this is the vision for road updates for DOT/HPMS. It will need buy-in from state DOTs.

- Walk-on topics

  General discussion on Trails. Greg Matthews, Chuck Matthys, Karen Rank, Tracy Fuller, Paul Dubois, Derald Dudley, and David Cackowski are all working on different aspects of Trails and may find it beneficial to collaborate (see action items). Derald noted that a National Digital Trails Working Group is being formed.

Updates and News from Working Group members and Agency updates
- BLM - for updates see last meeting's minutes
- Reclamation - no update
- NPS - no update

- BIA - no update
- FWS - Karen Rank: 2 weeks ago, held kickoff meeting for interns from USACE who will start mapping (recreational) trails on FWS land (haven't been updated in 5 years). Derald would like to incorporate these into the Pathways data for USRN.
- Forest Service - no update
- USACE - Paul Dubois is working with his recreation program lead to extend federal and state road models to the USACE data model, although he is not currently working with Tammy Ratliff to connect with the Federal Lands Roads data. (Data from USACE is not included in this GIS because there are restrictions in place on sharing this data; a sharing agreement is being worked out with Meredith Westbrook). Derald will add Paul to the USRN WG and Gita will put him in touch with Greg Matthews (trails)
- USGS - USGS participated in USRN spec meeting.
  - Chuck Matthys noted that his team is improving the NTD (ongoing work with Census data updates), integrating federal roads into NTD, and improving the national trails database (related to Greg's work) by integrating partner data into Trails data, making schema changes, and similar work.
  - George Heleine, USGS, presented at GIS-T on the [3D Elevation Program](#).
- Census - Last week at GIS-T, Valerie Beaudin presented on [Census TIGER transportation data](#).
  - Census participated in USRN spec meeting.
  - Dave Cackowksi noted that Census is updating their classification codes to include winter trails in Alaska; schema addition is in process.
- Federal Highways -
  - Tom Roff noted that GIS-T next year will be in Minneapolis, and recommended that we have more of a federal presence. There is a lot of data modeling and technical discussion there that could be valuable to USRS and FLR-WG members.

    USDOT has a lot of activity going on right now; something called AEGIST is in the works, which delves into details of specs of FHWA data (a nuts and bolts data model that DOT is putting together that will adhere to the USRS spec). There is a forthcoming guidebook (summer) to AEGIST. Finally, USDOT has recently completed a research project on bike trails; it will be available soon.

    Derald is planning now for next year's GIS-T; and notes that the conference is looking for more inclusive presentations (not just roads: more on air, trails, passenger travel, etc). Derald is considering putting together a 4-hour workshop on federal standards, or holding smaller workshops on disaster mapping and on road event feeds. He will try to have more info at the next FGDC Transportation Subcommittee meeting. Gita will help with outreach for calls for participation, and mentioned that GIS-T might have some interest in presentations on PADUS data. [2019 GIS-T Proceedings available here.](#)

- Upcoming Meetings
  - Next FLR-WG meeting -- Suggested date - June 25 @ 2 pm ET
    - Topic for a future meeting: follow up to Feb 27 presentation: PAD US and Federal Roads Overlay Test - Tom Roff, USDOT → Next step: After the next state HPMS submittal, June 15, take another look at this overlay test with the new data and PAD-US 2.0.
  - [Transportation Subcommittee](#) Quarterly meeting

- Contact: Derald Dudley, Derald.Dudley@dot.gov
  - o May 16 at 1:30 pm ET- date to change

ACTION ITEMS –
1. Dave Cackowski will set up a meeting between Census and USGS to discuss winter trails changes. Meeting should include Tracy Fuller, Greg Matthews, Chuck Matthys, and Gita Urban-Matthieux.
2. Complete: Gita will connect Paul to Greg to discuss trails.
3. Complete: Gita will share Valerie's slides from her GIS-T presentation with FLR-WG. See https://gis-t.transportation.org/wp-content/uploads/sites/51/2019/04/GIS-T-2019_-Final_Beaudin.pdf
4. Derald is on the Geospatial Data Act Team for Outreach and Communications, and is trying to build a FAQ (anything about GDAs, for example); contact him for anything you would like to see added.

Meeting End